INTELL. LIBRARY

Annual Report

OF THE

Medical Officer of Health

FOR THE

Rural District of Hawarden

FOR THE YEAR

1925.

Annual Report

OF THE

Medical Officer of Health

FOR THE

Rural District of Hawarden

FOR THE YEAR

1925.

Ladies and Gentlemen,

I have pleasure in presenting to you my Second Annual Report upon the Health of the above District.

It is drawn up in accordance with the Circular issued by the Ministry of Health to Medical Officers of Health.

It is divided into seven parts :—

1. Natural and Social Conditions of the Area.
2. General Provision of Health Services in the Area.
3. Sanitary Circumstances of the Area.
4. Housing.
5. Inspection and Supervision of Food.
6. Prevalence of, and Control over, Infectious Diseases.
7. Maternity and Child Welfare.

I am,

Yours obediently,

J. G. LLEWELLYN JONES.

SUMMARY OF MORTAL AND VITAL STATISTICS.

Area	...(Acres)	32,570
Population (to middle of June, 1925) (estimated) ...		25,800
Density		.76
Inhabited Houses		5,688
New Houses Certified		124
Rateable Value	£96,434 0 0	
Births		497
Birth Rate	(per 1,000)	19.34
Deaths		262
Death Rate	(per 1,000)	10.30
Infantile Mortality	(per 1,000 births)	48.47
Zymotic Death Rate (7 Chief Zymotics) ...	(per 1,000)	0.19
All Forms of Tuberculosis	(per 1,000)	0.78
Poor Law Relief	£12,933 13 10	

I.—GENERAL STATISTICS.

Area(Acres)	32,570
Population (Census 1921)	24,036
Number of Inhabited Houses (1921)	5,091
Number of Families or Separate Occupiers (1921) ...	5,341
Rateable Value	£96,434 0 0
Sum represented by a 1d. Rate	£431 14 11¾

II.—EXTRACTS FROM THE VITAL STATISTICS OF THE YEAR.

Births, 497. Birth Rate, 19.34.

	M.	F.	
Legitimate ...	257	223	
Illegitimate ...	6	11	
	263	234	Total 497.

Deaths.—Males, 156; Females, 106. Total, 262.

Death Rate.—R.G., 11.2.

Number of Women Dying in, or in consequence of, Childbirth.—From Sepsis, 1; from other causes, 2.

Deaths of Infants under one year of age, per 1,000 Births, 41.66.

Legitimate.		Total	Illegitimate.		Total.
M.	19		M.	Nil	
F.	5	24	F.	Nil	Nil

	M.	F.
Deaths from Measles (all ages)	1	2
,, ,, Whooping Cough (all ages) ...	2	1
,, ,, Diarrhœa (under 2 years of age) ...	2	0

BIRTHS.—From the preceding extract it will be noted that the number of Births was 497—males, 263; females, 234

In the previous year the number of Births was 538—males, 267; females, 271.

The birth rate was 19.34, showing a decrease of 1.70 per 1,000, as compared with the preceding year. The birth rate of England and Wales was 18.3.

ILLEGITIMATE BIRTHS.—These numbered 15—males, 6; females, 11.

DEATHS.—The number of deaths was 262—males 156, and females 106—the death rate being 10.30 per 1,000. The death rate from all causes in England and Wales was 12.2 per 1,000.

CAUSES OF DEATH.

	M.	F.
All causes	156	106
1. Enteric Fever	—	—
2. Small-pox	—	—
3. Measles	1	2
4. Scarlet Fever	—	—
5. Whooping Cough	2	1
6. Diphtheria	2	—
7. Influenza	3	—
8. Encephalitis Lethargica	—	1
9. Meningococcal Meningitis	—	—
10. Tuberculosis of respiratory system	9	8
11. Other Tuberculous diseases	2	1
12. Cancer, malignant disease	18	23
13. Rheumatic Fever	—	—
14. Diabetes	1	1
15. Cerebral Hæmorrhage, etc.	14	9
16. Heart Disease	17	13
17. Arteric-sclerosis	3	2
18. Bronchitis	14	6
19. Pneumonia (all forms)	17	8
20. Other respiratory diseases	2	—
21. Ulcer of Stomach or Duodenum	1	—
22. Diarrhœa, etc. (under two years)	2	—
23. Appendicitis and Typhlitis	3	1
24. Cirrhosis of Liver	—	—
25. Acute and Chronic Nephritis	3	3
26. Puerperal Sepsis	—	1
27. Other accidents and diseases of pregnancy and parturition	—	2
28. Congenital Debility and Malformation, premature birth	6	4
29. Suicide	2	—
30. Other deaths from violence	12	1
31. Other defined diseases	20	17
32. Causes ill-defined or unknown	2	2
Deaths of Infants under one year :—		
Total	19	5
Illegitimate	—	—
Population for Birth Rate		25,800
,, ,, Death Rate		25,220

INFANTILE DEATH RATE.—The deaths of infants under one year of age was 24, as compared with 34 in the preceding year. The infantile death rate was 8.4 per 1,000, as compared with 63.6 per 1,000 in the preceding year. The chief diseases responsible for the mortality are : Whooping Cough, 3 ; Diarrhœa, 2 ; Premature Births, 10.

DIARRHŒAL DISEASES (under two years of age).—Two deaths, as compared with two in the preceding year. Mortality from diarrhœa is always heavier in dry hot summers. The importance of flies as carriers of infection should be noted and further attention drawn to the fact that collections of stable manure form the most common breeding places for these insects.

The Hawarden Rural District is situated to the east of the County of Flint, upon the borders of Cheshire and Denbighshire. The geological formation is that of the lower coal measures, the surface consisting of sand, gravel and alluvium. The more populous portion extends from Saltney to Shotton, lying adjacent to the River Dee, upon the banks of which are situated several large works, giving employment to a great number of men. There are large steel and galvanising works at Shotton, electrical and mining machinery manufacturers, chemical, basic slag, and patent manure works, also two large shipbuilding yards and brickworks. The remaining portion is hilly. Collieries, brickworks and agriculture afford the chief occupations.

VOLUNTARY HOSPITALS.

Three hundred and five cases were treated at the Royal Infirmary, Chester. A few cases were also treated at the Northern Hospital, Liverpool, and the Royal Infirmary, Liverpool.

Four cases of " Tar Cancer " have occurred, one of which proved fatal.

MATERNITY HOSPITAL.—During the year 1924 a well-equipped Maternity Hospital was opened at Mancott Royal, called the Catherine Gladstone Maternity Home. It is, and should be, of increasing advantage to the welfare of the mothers of the district, particularly whilst overcrowding is so acute. The administration is vested in the Flintshire County Council, and is under the charge of the County Medical Officer of Health, Dr. A. E. Williams. The Staff and equipment is most efficient, and everything necessary is provided for the comfort of the patients.

MIDWIVES.—No subsidy is granted to practising Midwives by the Public Health Authority. About 15 Midwives are employed in the district, who are under the control of the Flintshire County Council, as the supervising administrative authority.

CLINIC AND TREATMENT CENTRES.—The Infant Welfare work in this district is being efficiently carried out. The infants and mothers are visited at their homes periodically by two

fully-trained full-time Health Visitors, who share the work of the district. There is one Welfare Centre, where the County Medical Officer of Health and Health Visitors are present weekly, situated at Shotton. This Centre is fully appreciated, as is shown by the attendance of mothers, who come from outlying distances, some miles away. The average attendance is excellent. The School Clinic is much appreciated. It is now opened two half-days a week, with Medical Officer and Nurse in attendance. Efforts during the last half-year on behalf of crippled children have now resulted in the establishment by the Flintshire County Council of an Orthopædic Clinic.

VENEREAL DISEASES are treated at Chester Infirmary.

CHILDREN'S HOSPITAL.—None.

HOSPITAL ACCOMMODATION.—The Council's Hospital for Infectious Diseases is situated at Dobshill, and consists of Scarlet Fever Block, Diphtheria Block, Enteric Fever Block. The Hospital is well equipped, centrally situated in an isolated position, within easy distance of Buckley Station, and on the line of a motor-'bus route. The Staff consists of a Matron, two qualified Nurses, and a Porter. If extra help is needed the M.O.H. has authority to engage extra Nurses. A meeting has been convened of the following authorities: Mold Urban Council, Buckley Urban Council, and Holywell Rural District Council, with a view to a Joint Hospital Board being formed. If this materialises, it will no doubt mean the alteration of the existing Hospital to accommodate a population of approximately 50,000.

SMALL-POX.—The arrangements for the isolation of cases of Small-pox are now in the hands of the Flintshire County Council, and they have taken over the Isolation Hospital at Connah's Quay for this purpose.

TUBERCULOSIS.—The Tuberculosis Sanatorium is situated at Meadowslea, Penyfford.

PROFESSIONAL NURSING.—The District Nurses are greatly in demand and co-operate most willingly with the Medical Practitioners. Nursing is provided by public subscriptions to the Nursing Fund, under the auspices of the North Wales Nursing Association.

By the kindness of the Secretaries of the various Nursing Associations, I am in a position to give you the following information:—

Name of Association	Name of Nurse	Number of Cases			Visits
		Med.	Surg.	Mat.	
Hawarden	Nurse Hughes, C.M.B.	22	26	31	2171
Hope & Caergwrle ...	Nurse Williams, C.M.B.	24	15	46	1257
Llanfynyd & District	Nurse Roberts, C.M.B.	72	13	11	—
Q'ferry & Garden City	Nurse Johnson.	45	35	—	1541

FACTORIES AND WORKSHOPS ACT.—The provisions of this Act as regards accommodation and sanitary arrangements have received the usual attention.

Annual Report of the Medical Officer of Health for the year 1925, for the Rural District of Hawarden

on the administration of the Factory and Workshop Act, 1901, in connection with

Factories, Workshops and Workplaces.

Including inspections made by Sanitary Inspecto or Inspector of Nuisances.

1. Inspection of Factories, Workshops and Workplaces.

Premises	Number of Inspections	Written Notices	Occupiers Prosecuted
FACTORIES. Including Factory Laundries.	15	3	Ni
WORKSHOPS Including Workshop Laundries	40	Nil.	Nil
WORKPLACES Other than Outworkers' premises			
TOTAL	55	3	Nil

2. Defects found in Factories, Workshop & Workplaces.

Particulars	Number of Defects Found	Remedied	Referred to HM Inspr.	No. of offences in respect to which prosecutions were instituted
Nuisances under Public Health Acts :				
Want of cleanliness ...	12	12	Nil	Nil
Want of ventilation ...	2	2	Nil	Nil
TOTAL ...	14	14	Nil	Nil

SMOKE ABATEMENT.—No action.

PREMISES AND OCCUPATIONS WHICH CAN BE CONTROLLED BY BYE-LAWS OR REGULATIONS.—Bye-laws are in force in regard to Houses Let in Lodgings, Offensive Trades, but no action has had to be taken in these respects. We have no underground sleeping rooms. Accommodation for hop-pickers is not required in this district.

SCHOOLS.—Below I give a list of Schools within this area and also the Water Supply :—

Name of School.	*Situation.*	*Water Supply.*
Flintshire C.C. ...	Saltney	Chester Water Co.
Wood's Memorial ...	Saltney	Chester Water Co.
Roman Catholic ...	Saltney	Chester Water Co.
Flintshire C.C. ...	Mold Junction ...	Chester Water Co.
Flintshire C.C. ...	Broughton	Hawarden Water Co.
Canon Drew's Memorial	Hawarden	Hawarden Water Co.
Infants' School ...	Hawarden	Hawarden Water Co.
Miss Parry's (Private)	Hawarden	Hawarden Water Co.
Flintshire C.C. ...	Queensferry	Hawarden Water Co.
Flintshire C.C. (Infants)	Queensferry	Hawarden Water Co.
Hawarden County School	Hawarden	Hawarden Water Co.
C. of E.	Sandycroft	Hawarden Water Co.
Flintshire C.C. ...	Shotton	Hawarden Water Co
St. Ethelwold's ...	Shotton	Hawarden Water Co.
Flintshire C.C. ...	Ewloe Green	Hawarden Water Co.
Flintshire C.C. ...	Garden City	Hawarden Water Co.
Flintshire C.C. ...	The Golf, Sealand ...	Hawarden Water Co.
St. John's	Penymynydd	Pump.
Flintshire C.C. ...	Penyffordd	Wrexham Water Co.
Flintshire C.C. ...	Hope	Wrexham Water Co.
Flintshire C.C. ...	Abermoradd	Wrexham Water Co.
C. of E.	Kinnerton	Kinnerton Water.
C. of E.	Tryddyn	Brymbo Water Co.
Flintshire C.C. ...	Coed Talon	Brymbo Water Co.
Flintshire C.C. ...	Llanfynydd	Private Supply.

HAWARDEN DISTRICT SEWERAGE.

A scheme for improving the sanitation of a portion of the Special Drainage Area, designed by Messrs. Elliott & Brown, of Nottingham, at Queensferry, Aston and Shotton, has been completed during the year. An intercepting outfall sewer, 1,639 yards long, has been laid along the site of a new road parallel to the Holyhead-Chester turnpike to divert the high-level sewage from the overworked ejector systems, as also to improve the outfalls from the ejectors, thus increasing their efficiency. This outfall sewer discharges into a pumping sump, and duplicate electric pumps are installed which automatically discharge the sewage through 770 yards of 12-inch pumping main to the outfall works. The electric current is produced by the existing suction gas engines, which are not now fully occupied, by compressing air, and alternatively from a connection with the public electric distribution service which has recently been installed.

The defective earthenware pipe sewer along Station Road, Queensferry, has been replaced by an iron sewer laid on a concrete foundation, and this district has been connected by gravitation to the new intercepting outfall sewer, and the inadequate system of lifting by compressed air has been discarded.

The former sewage-logged condition of this area is now a thing of the past.

At Shotton, a considerable improvement has been effected by making a connection between this pumping area and the intercepting outfall sewer, thus permitting the excess water to overflow as also to form a direct outfall from the ejector pump instead of the former long length of small pumping main. The delivery from the ejector pump at Wepre has also been similarly improved.

An extension of 977 yards of sewer at Aston has been carried out, which has permitted the new property to discard their cesspools, and also provides for the drainage of future buildings.

SANITARY CIRCUMSTANCES OF THE AREA.

The following companies have powers to supply water in this Council's area :—

Wrexham Water Co., Parishes of Llanfynydd and Hope.

Brymbo Water Co., Parishes of Tryddyn and Llanfynydd.

Hawarden Water Co., Parishes of Hawarden and West Saltney, and Sealand.

Chester Water Co., Parish of East Saltney.

The above Council has a private supply to the Hawarden Union Workhouse, piped from a well on the Warren, Broughton.

In the Parish of Hawarden there are the following pumps : Hawarden, Broughton, Bretton, Pentrobin, Bannel, and the spout known as New Inn Spout, Stamford Way. Samples are taken over certain periods, and on the whole the supply is satisfactory. There are also various wells in different parts of the district, some belonging to private individuals and others under the jurisdiction of the Local Authority. During very dry weather a scarcity of water is pronounced throughout the Hawarden Special Drainage Area, but, I am given to understand that a meeting of the following Councils has been arranged : Hawarden, Buckley, Mold, and Holywell, with a view to the formation of a Joint Water Board. No doubt if this takes place provisions will be made with a view to the prevention of a future shortage.

RIVERS AND STREAMS.—The various rivers and streams in this area are inspected from time to time, and if any pollution is found steps are at once taken to remedy the matter. An enquiry has been held at Buckley respecting the pollution of ditches in this Council's area by the unfiltered sewage from the Urban Council of Buckley, and I believe that steps are now being taken by that Authority for the abatement of this nuisance.

RIVER POLLUTION, CAERGWRLE.—The drainage of a portion of this district discharges direct into the River Alyn, the contents of eight water-closets goes in unfiltered. In the other part of the district the sewage passes through settling tanks before entering the river, and consists of the filtered contents of ten water-closets.

DRAINAGE AND SEWERAGE.—Sewage schemes are in operation in the following Parishes : Hawarden Special Drainage Area, East Saltney, West Saltney, part of the Parish of Hope, part of the Parish of Llanfynydd. A private sewer scheme is also in operation in connection with the Sealand Tenants' Estate, at Garden City, Sealand. I have to thank the Engineers, Messrs. Elliott & Brown, Civil Engineers, Nottingham, for their kindness in sending me the following report upon the New Intercepting Sewer, etc., from Shotton to Queensferry.

CLOSET ACCOMMODATION.—I give below, in tabulated form, a statement of the closet accommodation in 1919 and at the end of 1925 :—

Village.	Year 1919.			Year 1925.		
	P.M.	P.C.	W.C.	P.M.	P.C.	W.C.
Caergwrle ...	174	0	20	178	8	23
Abermorddu ...	45	0	4	39	0	82
Hope	78	0	3	63	0	19
Caer Estyn ...	41	0	0	43	0	0
Penyfford	103	0	6	55	0	54
Penymynydd ...	36	0	1	29	0	8
Kinnerton (Higher)	18	0	2	18	0	2
Cymmau	51	0	0	54	0	0
Cefnybedd ...	37	0	2	54	0	5
Ffrwd	12	0	0	13	0	0
Ffrith	52	0	0	52	0	2
Llanfynydd ...	15	0	0	15	0	0
Pontybodkin ...	53	0	0	53	0	0
Coed Talon ...	34	0	0	34	0	0
Tryddyn ...	65	0	0	59	0	6
Marford & Hoseley	38	0	13	39	0	25
Saltney	232	0	35	18	0	312
Mold Junction ...	4	0	131	0	0	135
Sandycroft ...	128	0	93	38	0	183
Pentre	87	0	8	63	0	24
Queensferry ...	34	0	213	22	0	225
Mancott Royal ...	0	0	205	0	0	205
Mancott	67	0	21	67	0	22
Hawarden ...	126	0	107	100	18	121
Ewloe & Wood Lane	63	0	9	61	0	21
Aston & Perry Hill	21	0	8	3	0	61
Broughton ...	49	13	4	36	16	7
Bretton	33	0	0	36	0	0
Shotton	27	13	676	12	13	856
Garden City ...	0	0	225	0	0	300

I.—GENERAL HOUSING CONDITIONS.

PARISH OF HOPE.—1,020 houses. 22 unfit for habitation. 18 houses overcrowded. 62 houses have been erected by the Council, and 8 more are now in course of construction. A new colliery has been started, and this is causing some overcrowding.

PARISH OF LLANFYNYDD.—400 houses. 6 unfit for habitation. 5 houses overcrowded.

PARISH OF TRYDDYN.—381 houses. 14 unfit for habitation (one through colliery workings). 6 overcrowded.

PARISH OF MARFORD AND HOSELEY.—68 houses. 1 overcrowded and 1 unfit.

PARISH OF HAWARDEN. .—1,912 houses. 20 unfit for habitation. 120 houses overcrowded. 52 houses have been erected by the Council.

PARISH OF KINNERTON.— 88 houses, several in poor condition and irreparable.

PARISH OF WEST SALTNEY.—938 houses. 66 overcrowded. 26 unfit for habitation.

PARISH OF EAST SALTNEY.—481 houses. 136 overcrowded. 22 houses have been erected by the Council and 94 are in course of construction.

PARISH OF SEALAND.—400 houses. Messrs. John Summers & Sons have recently erected 50 houses in addition to the houses on the Garden City Estate.

NUMBER OF HOUSES ERECTED DURING THE YEAR.

(A) Total	124
(B) With State assistance under the Housing Act, 1923 ...	97
(1) As part of a municipal housing scheme	22
(2) By other bodies or persons	102
1. Unfit houses :	
Inspections : Total number of houses inspected for housing defects (under Public Health Act or Housing Act) ...	186
(2) Number of dwelling houses which were inspected under the Housing (Inspection of Districts) Regulations, 1910	Nil
(3) Number of dwelling houses found to be in such a state as to be so dangerous or injurious to health as to be unfit for human habitation	1
(4) Number of dwelling houses (exclusive of those referred to under the preceding sub-heading) found not to be in all respects reasonably fit for human habitation	186

2. Remedy of defects without service of formal notice ... 116

Number of dwelling houses rendered fit in consequence of informal action by the Local Authority or their Officers.

3. Action under statutory powers :

(A) Proceedings under section 28 of the Housing and Town Planning Act, 1919 Nil

(1) Number of dwelling houses in respect of which notices were served requiring repairs Nil

(2) Number of dwelling houses which were rendered fit ... Nil

(A) By Owners 116

(B) By Local Authority in default of Owners Nil

(3) Number of houses in which closing orders became operative in pursuance of declarations by Owners of intention to close Nil

(B) Proceedings under Public Health Act :

(1) Number of houses in respect of which notices were served requiring defects to be remedied 6

(2) Number of dwelling houses in respect of which defects were remedied :

(A) By Owners 116

(B) By Local Authority in default of Owners Nil

(C) Proceedings under sections 17 and 18 of the Housing and Town Planning Act, 1909.

(1) Number of representations made with a view to the making of closing orders Nil

(2) Number of dwelling houses in respect of which closing orders were made Nil

(3) Number of dwelling houses in respect of which closing orders were determined, the dwelling houses having been rendered fit Nil

(4) Number of dwelling houses in respect of which Demolition Orders were made Nil

(5) Number of dwelling houses demolished in pursuance of Demolition Orders Nil

TOWN PLANNING.

The Council have proposals for a Town Planning Scheme, under which the land adjoining the River Dee is to be reserved for industrial Purposes. Public Parks and Recreation Grounds are to be established, or maintained where already existing.

I have to thank Mr. Fred Barrett, Sanitary Surveyor, for supplying me with the following information :—

Table showing Housing Progress during 1921-1925.

Parish	Area	Pop. Census 1921	Pop. Est, 1925	1921 PE	1921 LA	1922 PE	1922 LA	1923 PE	1923 LA	1924 PE	1924 LA	1925 PE	1925 LA	Total 1921-5	No. of Houses 1925	Persons per house Cencus 1921	Persons per house Estfmated 1926
Hawarden	9115	7632	8542	9	-	35	-	43	-	43	-	52	-	182	1912	4-41	4 41
E. Saltney	1317	2373	2518	1	-	1	-	1	22	-	-	-	4	29	481	5 72	5.23
W. Saltney	877	4366	4456	-	-	4	-	10	-	-	-	4	-	18	938	4.74	4.73
*Sealand	4850	1887	2412	-	-	20	-	69	-	5	-	11	-	105	450	5.46	5.36
Hope	9441	3469	4196	9	28	15	34	15	-	21	-	22	2	146	1020	3.48	4.11
Llanfynydd		1857	1892	2	-	3	-	2	-	-	-	-	-	7	400	4.72	4.73
Kinnerton	1825	388	393	-	-	-	-	-	-	1	-	-	-	1	88	4.45	4.46
Marford	689	260	335	2	-	1	-	7	-	2	-	3	-	15	68	4 90	4.92
Tryddyn	3614	1363	1368	-	-	-	-	-	-	1	-	-	-	1	381	3.58	3.59

Housing Scheme at Abermorddu—8 houses commenced in 1925 and 2 completed. Housing Scheme at Saltney—94 houses, 4 completed during the year 1925. Land purchased at Ewloe for 80 houses to be commenced in July 1926. The Council are in negotiation for land at Mancott. If successful, 68 houses will be erected. Land for the erection of 8 houses has been purchased at Kinnerton. It is hoped to commence the erection of these at an early date. It is proposed to erect 32 houses at Penyfford. The land is not yet purchased, but the site has been selected and plans are in course of preparation. (PE means Private Enterprise LA means Local Authority.)

*Civil Parish.

LIST OF ADOPTIVE ACTS AND REGULATIONS MADE BY THE HAWARDEN RURAL DISTRICT COUNCIL.

	In Force.	*Under What Act.*
Dairies, Cowsheds & Milkshops ...	In the Rural District	Public Health Act.
Common Lodging Houses	,, ,, ,,	,, ,, ,,
Houses Let in Lodgings	,, ,, ,,	,, ,, ,,
Cleansing of Footways and Pavements, the Removal of House Refuse, and the Cleansing of Privies, Ashpits, etc.	Contributory places of Higher Kinnerton, Marford & Hoseley, Sealand, Tryddyn, Hope, Caergwrle, Hawarden S.D.A	,, ,, ,,
Nuisances	,, ,, ,,	
Regulations of Offensive Trades ...	,, ,, ,,	,, ,, ,,
Slaughter-houses ...	,, ,, ,,	
Drainage Regulations	Rural District ...	
New Buildings . .	Contributory places of Hawarden, Hope, Saltney	,, ,, ,,

INSPECTION AND SUPERVISION OF FOOD.

The milk supply on the whole is of a fairly good quality and produced in a cleanly manner. The cowsheds are mostly of the old-fashioned type, but are kept fairly clean. The number registered under the Milk and Dairies (Amendment) Act, 1922, is 219. Any action to be taken as to Tubercuious Milk and Tuberculous Cattle is carried out by the Chief Constable for the County.

No applications for licences under special designations, classified as in the fourth Schedule to the Milk (Special Designations) Order, 1923, have been received. Below I give a schedule of the samples of milk analysed, and the results :—

1. This milk contains 1,300 organisms per c.c. B. Coli was present in 1-10th of a c.c., but absent in 1-100th and 1-1,000th c.c.
2. This milk contained 66,000 organisms per c.c. B. Coli was found in 1-1,000th of a c.c.
3. This milk contained 14,300 organisms per c.c. B. Coli could not be detected in any dilution.
4. This milk contained 6,300 organisms per c.c. B. Coli was present in 1-100th of a c.c.

5. This milk contained 12,800 organisms per c.c. B. Coli was found in 0.1 of a c.c. No T.B.

No. 2 Milk supplied to the Catherine Gladstone Maternity Hospital, Mancott Royal.

No. 3 Milk supplied to this Council's Isolation Hospital at Dobshill, Hawarden.

No. 5 Milk supplied to the Meadowslea Sanatorium.

MEAT—The supervision, and inspection, of food stuffs intended for human consumption has received close attention during the year, and every effort has been made to obviate the possibility of unsound food being sold, and consumed by the public. The shops in which foods are prepared and sold have been kept in a fair state of general cleanliness. Some slight trouble has been experienced with butchers with regard to the hanging of carcasses outside their shops, but I am pleased to state that this practice has ceased. We have no Public Slaughter Houses within this District.

PREVALENCE OF, AND CONTROL OVER, INFECTIOUS DISEASES.

INFECTIOUS DISEASES GENERALLY.

NOTIFIABLE DISEASES DURING THE YEARS 1920-1925.

Disease.	*Total Cases Notified 1920-25.*	*Admitted to Hospital 1920-25.*	*Total. Deaths 1920-25.*
Small-pox	1	1	0
Scarlet Fever	409	299	2
Enteric Fever	24	3	0
Puerperal Fever	5	—	3
Diphtheria	205	158	9
Erysipelas	36	—	0
Ophthalmic Neonatorum	4	—	0
Encephalitis Lethargia	6	—	1
Measles	90	—	10
Malaria	1	—	0
Cerebro Spinal Fever	1	—	0

NOTIFIABLE DISEASES DURING THE YEAR 1925.

Disease.	*Total Cases Notified.*	*Admitted to Hospital.*	*Total Deaths.*
Small-pox	0	0	0
Scarlet Fever	83	63	0
Enteric Fever	3	2	0
Puerperal Fever	4	0	1
Pneumonia	16	—	25
Erysipelas	12	0	0
Encephalitis Lethargia	4	0	1
Tuberculosis :			
(A) Pulmonary, M. 18, F. 18	36	—	17
(B) Non-Pulmonary, M. 3, F. 4.	7	0	3
Diphtheria	18	19	2

AMBULANCE FACILITIES.—An efficient and up-to-date Horse Ambulance is kept at the Isolation Hospital for Infectious Cases. No Ambulance is provided for non-infectious diseases and accident cases beyond that provided at the Hawarden Bridge Steel-works, which employs about 6,000 men and boys. A Motor Ambulance is provided, together with well-fitted first-aid rooms, with an X-Ray installation.

BACTERIOLOGICAL AIDS.—This work is carried out by the Pathological Department, Royal Infirmary, Chester, and Bacteriological Department, University of Liverpool. Diphtheria Anti-toxin is supplied free of cost, and can be obtained at the Isolation Hospital. No distinction of persons is made, beyond that it is primarily intended for the use of persons who cannot afford to pay for it. Swabs are taken in suspicious cases and from patients before they are discharged from Hospital.

PNEUMONIA.—16 cases were notified during the year. There were 25 deaths in 1925, as compared with 34 deaths in 1924. Respiratory diseases cause an increasing proportion of the total deaths from all causes.

ENCEPHALITIS LETHARGIA.—4 cases were notified, as against 2 in the preceding year. In view of the definite, though not very marked infectivity of the disease, the Council have resolved that all cases which cannot be effectually isolated at home are to be removed to the Isolation Hospital.

TUBERCULOSIS.

Age Periods.	*New Cases*				*Deaths.*			
	Pulmonary		*Non-Pul.*		*Pulmonary.*		*Non-Pul.*	
	M.	*F.*	*M.*	*F.*	*M.*	*F.*	*M.*	*F.*
0	1	3	1	0	—	—	—	—
5	0	1	2	1	—	1	—	—
10	2	1	0	0	—	1	—	—
15	0	2	0	0	—	—	—	—
20	0	3	0	2	—	1	—	—
25	5	4	0	0	1	3	—	—
35	4	1	0	1	3	1	—	—
45	4	1	0	0	—	2	—	—
55	1	0	0	0	3	—	—	—
65 and over...	1	2	0	0	—	—	—	—
	18	18	3	4	7	9	—	—

TUBERCULOSIS.—20 deaths occurred, 11 males and 9 females, as against 20 deaths, 9 males and 11 females, in the preceding year. 43 cases were notified during the year, 21 males and 22 females. A small number of cases of this disease still escape notification. This may be due to the failure on the part of the patient to consult a doctor until very late in the illness, or to the doubt or difficulty in regard to the diagnosis. Every case in which

there is a suspicion of Tuberculosis has an opportunity of attending for examination by the District Tuberculosis Physician. It is encouraging to note that only occasionally do patients refuse to be examined. The valuable assistance of the Tuberculosis Officer is greatly appreciated both by practitioners and patients. All cases are visited as early as possible. Leaflets are issued which contain suitable summaries of information and instruction concerning the disease. Cases notified are transmitted weekly to the County Medical Officer of Health, and also a return of all cases is issued quarterly. In case of death at home or removal to a sanatorium, the rooms are disinfected and an offer is made for the bedding to be sent to the Isolation Hospital, where it will be disinfected free of charge.

The following deaths occurred in Meadowslea Sanatorium of cases of Tuberculosis from outside this district: males, 15 cases; females, 10 cases.

The Dick Test and Schultz-Charlton Tests are being used at the Isolation Hospital as an aid to the diagnosis of Scarlet Fever. The Scarlet Fever Anti-toxin has been used with success in severe cases of Scarlet Fever. The serum, however, failed to produce passive immunisation in the two cases in which used.

No vaccinations were performed by the Medical Officer of Health under the Small-pox Regulations, 1917.

An epidemic of a mild type of Measles and of Whooping Cough occurred during the latter part of the year, necessitating the closure of the Infant Schools in the district.

Three deaths occurred as the result of Influenza.

One death occurred as the result of "Tar Cancer." All the men employed at the Tar Works are periodically examined by the Certifying Factory Surgeon.

There are no facilities (except at the Workhouse) for the disinfection of verminous persons. Premises which have been exposed to infection are disinfected by means of sulphur, and articles by means of the steam disinfector at the Isolation Hospital.

The Public Health Officials of the Hawarden Rural District Council consist of:—

Medical Officer of Health (Part Time).—J. Llewellyn Jones, M.B., Ch.B., D.P.H.

Sanitary Inspector No. 1 District (Whole Time). — F. Bannister-Jones.

Sanitary Inspector No. 2 District (Whole Time).—Anuerin O. Griffiths, R.S.I., R.S.I. (Meat).

I have to again thank the Members of the Council, and particularly the Members of the Hospital Committee for their support. I also wish to add my appreciation of the valuable work, both outdoor and clerical, by the Sanitary Inspectors.

I am, Ladies and Gentlemen,

Your Obedient Servant,

J. G. LLEWELLYN JONES....

ANNUAL REPORT OF SANITARY INSPECTOR FOR No. 1 DISTRICT.

To the Chairman and Members of the Hawarden Rural District Council.

Ladies and Gentlemen,

I have pleasure in presenting my report for the year 1924.

The scavenging of your districts has been carried out in a very satisfactory manner. What few complaints we have received, the contractors have remedied at once.

SLAUGHTER-HOUSES.—The number of Slaughter-houses on the Register is 10. They are kept in a cleanly condition, the manure and garbage being removed immediately after slaughtering.

BAKEHOUSES.—There are 19 Bakehouses on the Register. These are periodically inspected, and I am pleased to state that the general cleanliness of the premises has greatly improved during the past year.

MILK AND DAIRIES' AMENDMENT ACT, 1922.—50 persons are registered as Retail Purveyors of Milk under the above Act, and 57 persons as Wholesale Producers. I am pleased to state that more attention has been paid to the limewashing and general cleanliness than in the preceding year.

SCAVENGING.

The scavenging of Hope Parish is carried out by contract. In the lower ward, which comprises Penyffordd and Penymynydd, the work has been done quite satisfactory.

In the middle ward, Hope and Caergwrle district, the contractor has not paid close attention to the work. Complaints have been numerous, and great difficulty has been found to cope with the work owing to large accumulation of refuse.

SLAUGHTER-HOUSES IN THE DISTRICT.

	1920.	Jan., 1925.	Dec., 1925.
Registered	... 3	... 5	... 5
Licensed	... 2	... 4	... 4

NUMBER OF NEW HOUSES ERECTED DURING THE YEAR.

(A) Total	109
(B) With State assistance under the Housing Act, 1923 ...	82
(1) As part of a municipal housing scheme	22
(2) By other bodies or persons	87
1. Unfit houses :	
Inspection : (1) Total number of houses inspected for housing defects (under Public Health Act or Housing Act)	72
(2) Number of dwelling houses which were inspected under the Housing (Inspection of District) Regulations, 1910	Nil
(3) Number of dwelling houses found to be in a state so dangerous or injurious to health as to be unfit for human habitation	Nil
(4) Number of dwelling houses (exclusive of those referred to under the preceding sub-heading) found not to be in all respects reasonably fit for human habitation	72
2. Remedy of defects without service of formal notices :	
Number of dwelling-houses rendered fit in consequence of informal action by the Local Authority or their Officers	59
3. Action under statutory powers :	
A.—Proceedings under Section 28 of the Housing, Town Planning, etc., Act, 1919	Nil
(1) Number of dwelling houses in respect of which notices were served requiring repairs	Nil
(2) Number of dwelling houses which were rendered fit ...	Nil
(*a*) By owners	Nil
(*b*) By Local Authority in default of owners	Nil
(3) Number of houses in which closing orders became operative in pursuance of declarations by owners of intention to close	Nil
B.—Proceedings under Public Health Act :	
(1) Number of houses in respect of which notices were served requiring defects to be remedied	6
(2) Number of dwelling houses in which defects were remedied	6
(*a*) By owners	6
(*b*) By Local Authority in default of owners	Nil
C.—Proceedings under Sections 17 and 18 of the Housing Town Planning Act, 1909 :	
(1) Number of representations made with a view to the making of Closing Orders	Nil
(2) Number of dwelling houses in respect of which Closing Orders were made	Nil
(3) Number of dwelling houses in respect of which Closing Orders were determined, the dwelling houses having been rendered fit	Nil
(4) Number of dwelling houses in respect of which Demolition Orders were made	Nil
(5) Number of dwelling houses demolished in pursuance of Demolition Orders	Nil

SUMMARY OF SANITARY WORK.

Inspections	1256
Nuisances abated :	
New drains provided	145
Drains tapped	120
P.M.s converted into W.C.s	79
Ashpits abolished	64
Ashbins provided	85
Floors repaired	7
Accumulations removed	9
Eaves gutters repaired	36
New W.C.s provided	15
Ashpit doors provided	21
Drains opened and cleansed	38
P.M.s abolished	16
P.M.s converted into P.C.s	32
New sinks provided	25
New waste pipes provided	28
Yards repaired	14
New flushing cisterns provided	6
Cowsheds repaired	15
P.C.s converted into W.C.s	6
W.C.s repaired	6
Urinals provided	2
New P.M.s provided	6
Infectious Disease :	
Visits to infected houses	192
Houses disinfected	173
Patients removed to Hospital	74
Water Supply :	
New houses supplied and certificates granted ...	109
Old houses supplied from Water Co.'s main ...	6

MEAT INSPECTION.

	Cattle.	*Sheep.*	*Pigs.*	*Calves.*
Carcases examined ...	176	643	253	95

Articles Condemned.—3 carcases of meat, 8 livers (cattle).

SLAUGHTER-HOUSES IN THE DISTRICTS.

	1920.	Jan., 1925.	Dec., 1925.
Licensed	4	9	10

Yours faithfully,

F. BANNISTER-JONES.

REPORT ON NO. 2 DISTRICT.

LADIES AND GENTLEMEN,

I have pleasure in presenting to you my Annual Report for the year 1925.

FOOD INSPECTION.

The supervision and inspection of foodstuffs intended for human consumption has received close attention throughout the year, and every effort has been made to obviate the possibility of unsound food being sold to the public. Every assistance is given by the trade generally to make the system of food inspection most efficient.

There are nine Slaughter-houses in the district. These are well conducted and kept in a good condition. Much time is taken up in visiting these premises, as they are situated so far apart, and the hours of slaughter vary.

The shops and premises in which foodstuffs are prepared and sold, have generally been kept in good condition, and the tendency to handle foodstuffs in a more hygienic manner is on the increase.

BAKEHOUSES.

There are 11 Bakehouses in the district. All are kept in a fairly clean condition. Two were found to be in need of lime-washing, and the notices served on the occupiers were readily complied with.

Each Bakehouse is provided with ample means for the employees to wash. Clean towels are provided as required.

DAIRIES AND COWSHEDS.

There are 112 persons registered as Milk-sellers, wholesale and retail. Close observation is kept on all premises so as to secure as clean a milk supply as possible. The producers are most earnest in their endeavour to carry out any suggestions that are made to improve the hygienic conditions of cowsheds and dairies.

Milk is sold from several farms, but not in sufficient quantities to be placed on the register. These premises have to conform with the regulation governing Cowsheds and Dairies.

FACTORIES AND WORKSHOPS.

These were regularly visited and found to be kept in conformity with the requirements of the various Acts.

FRIED FISH SHOPS.

There are 10 vendors of fried fish and chipped potatoes. These premises are frequently visited, both day and evening, during cooking operations.

NUMBER OF NEW HOUSES ERECTED DURING THE YEAR.

(*a*) Total	15
(*b*) As part of a municipal housing scheme	Nil
1. Unfit dwelling houses :	
Inspection.—(1) Total number of dwelling-houses inspected for housing defects (under Public Health or Housing Acts)	114
(2) Number of dwelling-houses which were inspected and recorded under the Housing (Inspection of District) Regulations, 1910	Nil
(3) Number of dwelling-houses found to be in a state so dangerous or injurious to health as to be unfit for human habitation	1
(4) Number of dwelling-houses (exclusive of those referred to under the preceding sub-heading) found not to be in all respects reasonably fit for human habitation	114
2. Remedy of Defects without Service of Formal Notices : Number of defective dwelling-houses rendered fit in consequence of informal action by the Local Authority or their Officers	64
3. Action under Statutory Powers :	
A.—Proceedings under Section 28 of the Housing, Town Planning, &c., Act, 1919.	
(1) Number of dwelling-houses in respect of which notices were served requiring repairs	Nil
(2) Number of dwelling-houses which were rendered fit :	
(*a*) By owners	64
(*b*) By Local Authority in default of owners	Nil
(3) Number of dwelling-houses in respect of which Closing Orders became operative in pursuance of declarations by owners of intention to close	Nil
B.—Proceeding under Public Health Acts.	
(1) Number of dwelling-houses in respect of which notices were served requiring defects to be remedied	114
(2) Number of dwelling-houses in which defects	
(*a*) By owners	64
(*b*) By Local Authority in default of owners	Nil
C.—Proceeding under Sections 17 and 18 of the Housing, Town Planning, &c., Act, 1909.	
(1) Number of representations made with a view to the making of Closing Orders	Nil
(2) Number of dwelling-houses in respect of which Closing Orders were made	Nil
(3) Number of dwelling-houses in respect of which Closing Orders were determined, the dwelling-houses having been rendered fit	Nil
(4) Number of dwelling-houses in respect of which Demolition Orders were made	Nil
(5) Number of dwelling-houses demolished in pursuance of Demolition Orders	Nil

Nuisances abated :—

Houses repaired	28
Houses cleaned	4
Overcrowding abated	3
New kitchen grates provided	1
Kitchen grates repaired	2
New floors provided	3
Floors repaired	5
New doors provided	1
Dampness in house walls abated	3
Eaves, gutters and down-spouts provided	3
Roofs repaired	33
Windows repaired	5
Yards repaired	10
New privies erected	2
Privies abolished	19
W.C.'s provided	19
New drains constructed	68
Privies repaired	8
Drains opened, cleansed, and repaired	36
Cesspits emptied	11
Refuse removed	37
New waste pipes provided	1

Infectious Disease :—

Visits to infected houses	24
Houses disinfected	12
Patients removed to Hospital	5

Water Supply :—

New houses supplied and certificates granted	15
Old houses supplied from Water Company mains	1
Samples taken for analysis	3
Samples condemned	1

Meat Inspection :—

	Cattle	Sheep	Pigs	Calves
Carcases examined	288	1,974	262	48
Articles condemned :	15 Livers (Cattle), 39 Livers (Sheep)			

Your obedient servant,

A. O. GRIFFITHS.

W. F. Lidbury, Printer, Shotton.